CLAIMS

What is claimed is:

1   1.   An apparatus, comprising:

2   a point-to-point communication array to transfer data; and

3   a hub device, coupled with said point-to-point communication array to

4   configure said point-to-point communication array by dedication of

5   a communication medium of said point-to-point communication

6   array to transfer data between an endpoint device and said hub

7   device based upon device connectivity.

1   2.   The apparatus of claim 1, wherein the endpoint device is coupled with said point-

2   to-point communication array via a connector.

1   3.   The apparatus of claim 2, wherein the connector comprises a connector having a

2   primary port and a non-primary port.

1   4.   The apparatus of claim 2, wherein the connector comprises a detachable coupling

2   to decouple the connector from the communication medium in response to a signal

3   from said hub device.

1   5.   The apparatus of claim 4, the detachable coupling comprises an inductive

2   coupling to couple the connector with the communication medium.

1   6.   The apparatus of claim 2, the connector comprises a translator to translate

2   between magnetic and electrical signals.

1   7.   The apparatus of claim 1, wherein said point-to-point communication array

2   comprises a lane to transmit data between the endpoint device and said hub

3   device.

1   8.   The apparatus of claim 7, wherein the lane comprises a selectable lane.

1   9.   The apparatus of claim 1, wherein said hub device comprises circuitry to provide

2   peer-to-peer communication.

1   10.   The apparatus of claim 1, wherein said hub device comprises logic circuitry

2   coupled with said point-to-point communication array to select the endpoint

3   device based upon receipt of a signal to indicate a device connectivity.

1   11.   The apparatus of claim 10, wherein the logic circuitry comprises circuitry to

2   transmit a signal to request a device connectivity.

1   12.   A method, comprising:

2   receiving a signal to indicate a device connectivity for an endpoint device

3   coupled with a point-to-point communication array;

4   determining a configuration for the point-to-point communication array

5   based upon the signal; and

6   dedicating a first communication medium of the point-to-point

7   communication array to transfer data between the endpoint device

8   and a hub device, based upon the configuration.

1   13.   The method of claim 12, further comprising requesting an indication of a device

2   connectivity from the endpoint device via the first communication medium.

1   14.   The method of claim 12, wherein said receiving a signal comprises receiving a

2   signal indicating that a primary port of the endpoint device is coupled with the

3   first communication medium.

1   15.   The method of claim 12, wherein said receiving a signal comprises receiving a

2   signal indicating that a non-primary port of the endpoint device is coupled with a

3   second communication medium of the point-to-point communication array.

1   16.   The method of claim 12, wherein said determining a configuration comprises

2   comparing the device connectivity against a connectivity capacity of the point-to-

3   point communication array.

1   17.   The method of claim 12 wherein said determining a configuration comprises

2   matching the endpoint device with a port based upon a priority.

1   18.   The method of claim 12, wherein said determining a configuration comprises

2   matching the endpoint device with a port based upon a connector to couple the

3   endpoint to the first communication medium.

1 19.   The method of claim 12, wherein said dedicating a first communication medium
2   comprises transmitting a signal to couple a port of the endpoint device with the
3   first communication medium.

1 20.   The method of claim 12, wherein said dedicating a first communication medium
2   comprises transmitting a signal to decouple a port of the endpoint device from the
3   first communication medium.

21.   A system, comprising:

a memory device to store data;

a chipset coupled with said memory, comprising

a memory controller to access said memory; and

an input-output controller, comprising

a point-to-point communication array to transfer data; and

a hub device, coupled with said point-to-point communication array to configure said point-to-point communication array by dedication of a communication medium of said point-to-point communication array to transfer data between an endpoint device and said hub device based upon device connectivity.

1   22.   The system of claim 21, further comprising a processor coupled with said chipset,
2   to transmit data from said memory via the data transmission medium.

1   23.   The system of claim 21, wherein the endpoint device is coupled with said point-
2   to-point communication array via a connector.

1   24.   The system of claim 21, wherein said hub device comprises logic circuitry
2   coupled with said point-to-point communication array to select the endpoint
3   device based upon receipt of a signal to indicate a device connectivity.

1   25.   A system, comprising:

2   an input-output device to request data via a transmission medium;

3   a chipset coupled with said input-output device, comprising

4   a point-to-point communication array to transfer data; and

5   a hub device, coupled with said point-to-point communication

6   array to configure said point-to-point communication array

7   by dedication of a communication medium of said point-to-

8   point communication array to transfer data between an

9   endpoint device and said hub device based upon device

10   connectivity; and

11   a processor coupled with said chipset to respond to the request for data via

12   said chipset.

1   26.   The system of claim 25, wherein said chipset further comprises a switch to couple

2   more than one input-output device with said chipset.

1   27.   The system of claim 25, wherein the point-to-point communication array

2   comprises a lane to transmit data between the endpoint device and said hub

3   device.

1   28.   A machine-readable medium containing instructions, which when executed by a

2   machine, cause said machine to perform operations, comprising:

3   receiving a signal to indicate a device connectivity for an endpoint device

4   coupled with a point-to-point communication array;

5   determining a configuration for the point-to-point communication array

6   based upon the signal; and

7   dedicating a first communication medium of the point-to-point

8   communication array to transfer data between the endpoint device

9   and a hub device, based upon the configuration.

1   29.   The machine-readable medium of claim 28, requesting an indication of a device

2   connectivity from the endpoint device via the first communication medium.

1   30.   The machine-readable medium of claim 28, wherein said determining a

2   configuration comprises comparing the device connectivity against a connectivity

3   capacity of the point-to-point communication array.